

# Science Data Systems Branch Technical Review

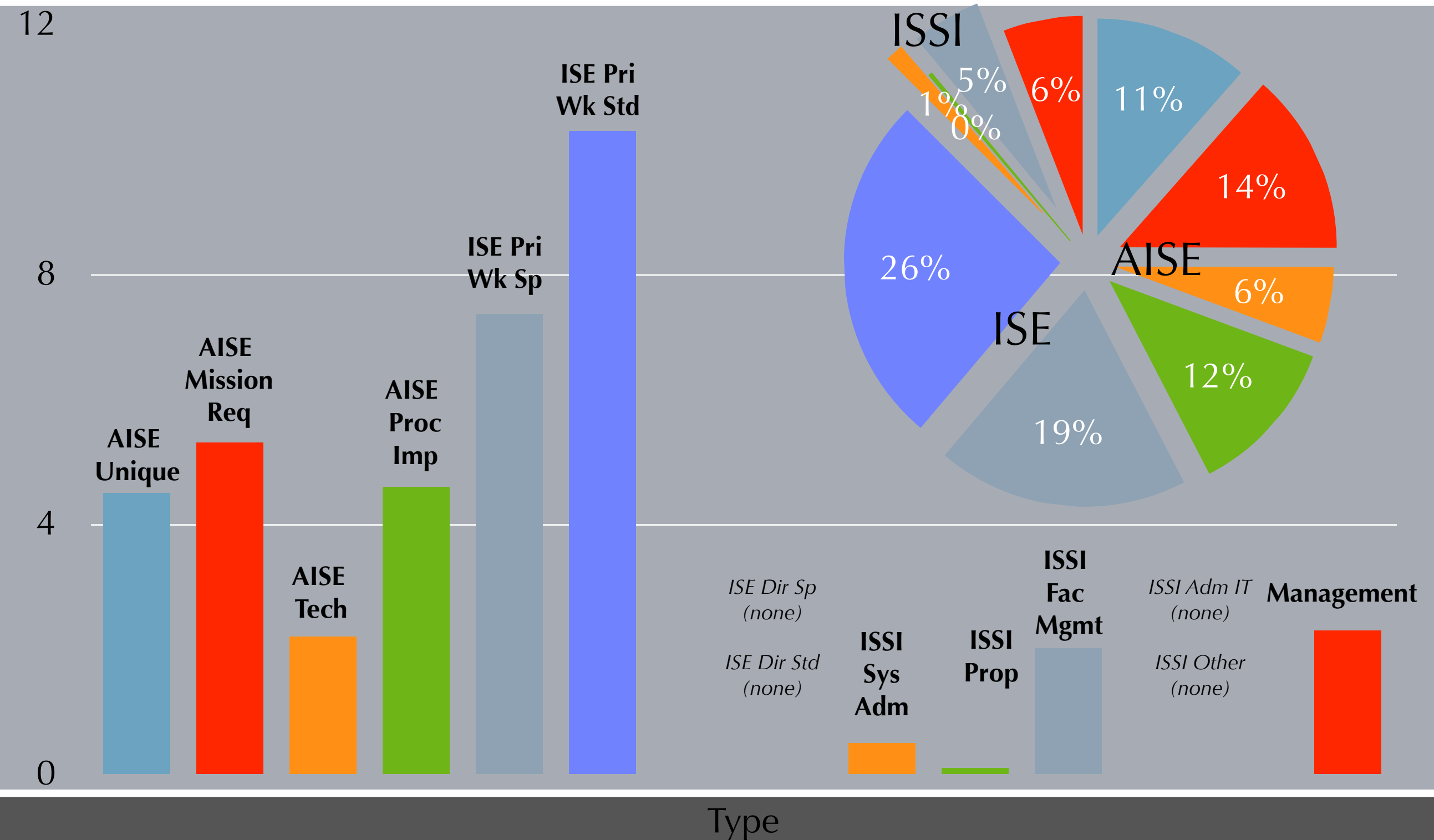
23 September 2004

Mike Seablom, Branch Head

Bob Lutz, Associate Branch Head



# 586 Resource Model



# 586 Resource Model



**Unique**

Han, Lutz, McDonald,  
Miller, North, Scott,  
Seablom



**Tech**

Eng, Kobler, Lubelczyk,  
McConaughy, Pfister,  
Seablom, Talabac, Toth,  
Weinstein



**Mission**

Behnke, Bock, Henegar,  
Ho, Kempner, Lubelczyk,  
Marinelli, North, Sheets



**Process**

Buenfil, Han,  
McConaughy, Mullinix,  
Olden

## AISE



**Primary  
Specialized**

Behnke, Brinker, Hartnett,  
Kobler, Macie, Schweiss,  
Turner, Ullman

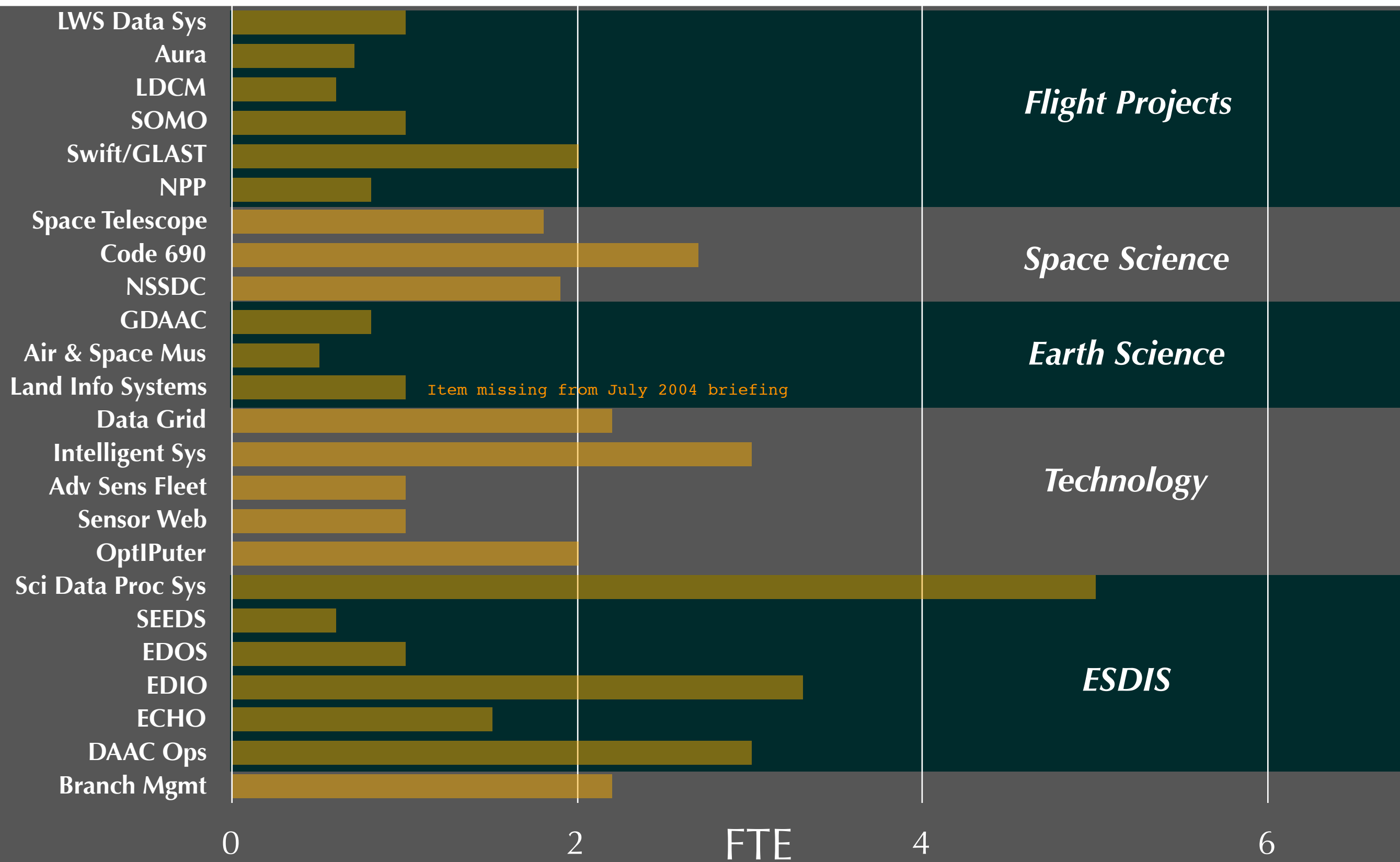
## ISE



**Primary  
Standard**

Hines, Lu, Lubelczyk,  
Marinelli, McCaleb,  
McDonald, Michael, Moses,  
Pumphrey, Scott, Sheets,  
Turner, Ullman, Weinstein

# 586 Staffing Model



# Project Status (External)

<i>Activity</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>ISD Date</i>	<i>CS</i>	<i>∂CS</i>	<i>Comments</i>
DAAC Ops				03-28-2002	4		DAACs responding well to Aura ingest
ECHO				03-27-2004	1.5		ECHO 7.0 development nearing completion; ECHO 6.0 testing delayed
EDOS				08-28-2003	1		Major upgrade planned to SW & HW to support Norway IP (schedule Feb '05)
SDPS (SSDO)				06-27-2001	5.7		PEB completed in August; latest release on schedule
GES DAAC				01-24-2002	0.8		
HST				10-23-2001	1		Hartnett overseeing Level 3 requirements for HRV mission
JWST					1		Received 18 HW racks for ground system testing
LDCM				08-28-2001	1		RFI released for Bridge Risk Mitigation Mission; NPOESS transition issues
LEP/LHEA				09-26-2002	1.8		DELCOURT model enhanced with O2 ion release conditions
LIS					1		Final ESMF milestone met
NSSDC				01-29-2004	1.9		On-going web service development

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<b>Aura Testing</b>				<b>23 Jul 2004</b>	<b>1.5</b>		Science data now streaming; higher level products remain unverified
<b>GLAST</b>					<b>1</b>		Henegar presented at CDR on 9/22
<b>Ground Network</b>					<b>1</b>		Supported Aura pre-launch, launch, and post-launch testing; supported HST testing
<b>Swift</b>					<b>1</b>		Launch scheduled for 26 Oct; 6 SW Tests need to be performed (ground station & MOC, space network)
<b>EDIO</b>				<b>Today</b>	<b>3.3</b>		Represented NASA at the CEOS/WGISS conference in China
<b>NPP</b>					<b>0.5</b>		Requirements review for the Science Data Segment is scheduled for 9/24; Masuoka, Tilmes, Feldman, Fleig, Gleason active in the process

# Project Status (Internal)

<i>Activity</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>ISD Date</i>	<i>CS</i>	<i>∂CS</i>	<i>Comments</i>
Adv Data Grid				27 May 2004	<b>2.2</b>		2 of 3 HW sites set up; acquisition of science data sets in progress
Fire Detection					<b>1</b>		Work may continue for another 2 months; no follow-on funding
Invasive Species (EO1)					<b>0.3</b>		EO-1 data collections have been made; 586 teaming w/923 on proposal
LWS Data System					<b>0.8</b>		North has drafted a metadata standard
Earth Today					<b>0.5</b>		New version of software slated to be installed NASM next week
Aqua/Aura Cueing					<b>1.2</b>		
OptIPuter					<b>1.5</b>		Numerous proposals submitted; 3 briefings to HQ in August
RASC					<b>1</b>		Work underway to examine analogy forecasting
Adv Sensor Fleet Software Dev					<b>0</b>		Loss of support due to resignation of Jessica Matthews
Administration					<b>2.1</b>		Good support from K. Thomas

# Internal Activities

FPGA Activities	Sensor Web	Grid Computing	Science Applications
<ul style="list-style-type: none"><li>- Responded to T. Lee (HQ/Science) to investigate FPGAs for numerical modeling</li><li>- Imminent transfer of 6 staff members of Code 560 FPGA group</li><li>- Working with Wes Powell/ 564 in Co-I role on Rad Tolerant Polymorphous Computing proposal</li></ul>	<ul style="list-style-type: none"><li>- At the request of HQ, submitted a Sensor Web Proposal to the MAP NRA</li><li>- Requested R&amp;TD funding to maintain the simulator work started in 2002</li><li>- Submitted IR&amp;D to integrate chemical model w/ Arua/Aqua</li></ul>	<ul style="list-style-type: none"><li>- Strong support from L. Smarr (ESSAAC Chair), collaborating on several proposals; HQ now involved, may fund ECHO/Optiputer prototype</li><li>- High marks from Landsat project on ADG prototype</li><li>- Toth working on ensemble forecasts with Hansen's model (GISS)</li></ul>	<ul style="list-style-type: none"><li>- Lutz &amp; Talabac (w/ 923) will submit a proposal to the Science Applications CAN (invasive species)</li><li>- Collaborating with 588 and NSA on Sensor Web C&amp;C (may propose to CAN)</li><li>- McDonald will integrate ocean model into ASF</li></ul>